University of North Carolina.

SUMMER COURSES

IN

GEOLOGY.

JUNE--JULY 1897.

CHAPEL HILL, N. C.:
1897.

SUMMER COURSES IN GEOLOGY, 1897.

I.

A course in general physical and structural geology, including mineralogy, will be given at Chapel Hill, N. C. It will begin on Tuesday, June 22d, and close on Friday, July 16th. Lectures will be given daily. The mornings will be occupied with work in the laboratory on the physical properties of minerals, varieties of rock and rock structures; and free use will be made of models, maps, diagrams, and photographs. The afternoons will be spent in field work in the intermediate neighborhood, and occasionally an entire day, after the morning lecture, will be given to such work. The course is accepted as college work, counting as the equivalent of the first course in geology during the fall term. It is open to all students who have had the course in physiography, or its equivalent. The course will afford practical preparation for field work, and be of especial value to teachers.

Students should provide themselves with hammer, pocket compass, note-book, and satchel or bag for carrying any specimens which may be collected. No text-book is prescribed, but students having the larger text-books of Dana, Geikie, or Le Conte, are advised to bring them for use as reference books. Other books of reference will be provided for the student's use in the laboratory. Application for admission to the course should be made to Professor Collier Cobb, Chapel Hill, N. C. The fee will be $6 and should be paid to W. T. Patterson, Bursar, Chapel Hill, N. C.

II.

An advanced course in field geology for students who have already completed an elementary course will begin June 9th, and last four weeks. The class will study the geologic structure of the

Newark rocks and the character of the most typical ancient lavas, by a series of excursions from Chapel Hill, and on the road between Chapel Hill and Sanford. There will be a series of short excursions from Cumnock and from Sanford to see, in addition to the Newark, the structure exhibited in the unconsolidated deposits of the Lafayette and Columbia. The return to Chapel Hill will be by the eastern border of the Triassic, and the crystalline schists near Raleigh and older volcanics near Cary.

Students who so desire may accompany the instructor to Southern Pines where an examination will be made of the unconsolidated deposits of the several coastal plain formations, the Potomac, Eocene, Lafayette and Columbia A few days later the party will go to Hamlet, where there are also a number of good exposures illustrating the character, structure, and relations of the formations along the western border of the coastal plain.

Leaving Hamlet, the class will follow the Carolina Central Railroad as far west as Polkton, along which line there are a number of good exposures, showing the character and relations between the coastal plain formations and the Pee Dee River granite; and between the Triassic sandstone and this granite on the east and the slates on the west. This section of the Triassic sandstone is especially instructive as showing faulting and the large number of dikes of varying width which have here broken through the sandstone. After reaching Polkton the class will break up for the season. The fee will be $10, and should be paid to W. T. Patterson, Bursar, Chapel Hill, N. C. For further information address Professor Collier Cobb, Chapel Hill, N. C.

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